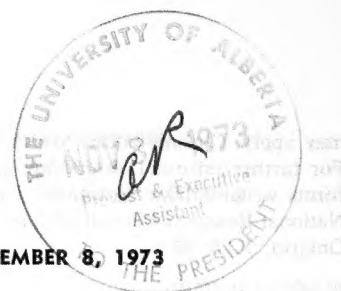


# FOLIO

THE UNIVERSITY OF ALBERTA STAFF BULLETIN

EDMONTON, ALBERTA

NOVEMBER 8, 1973



## GENERAL FACULTIES COUNCIL

By FOLIO Staff

A meeting of General Faculties Council was held October 29, 1973.

### ENVIRONMENTAL STUDIES PROGRAM

Council approved the Academic Development Committee's recommendations on the Undergraduate Interdisciplinary Environmental Studies Program. The recommendations, which will be forwarded to the University Planning Committee for consideration, are:

- (1) THAT a separate Department of Environmental Studies *not* be created at this time;

- (2) THAT the Environmental Studies program be directed by an interdisciplinary co-ordinating committee, to be created by General Faculties Council. The Committee shall encourage the formation of programs in environmental studies within departments and faculties, provide guidance for students, and establish an introductory course or other courses that it deems appropriate;

- (3) THAT secretarial services for the program also be provided, to assist in the direction of students to appropriate departments for advice on detailed course selection, identification of course content and selection for possible major environmental studies programs, and the dissemination of such information. The secretarial service will also maintain an up-to-date list of student advisers in participating departments and faculties;

- (4) THAT the Committee be composed of 8 to 10 persons initially, drawn from academic staff of the Faculties of Agriculture, Arts, Engineering, Medicine and Science, plus one graduate and one undergraduate student.

### DEGREES 'WITH DISTINCTION'

In response to a request by R. G. BALDWIN, Dean of the Faculty of Arts, members voted: THAT General Faculties Council authorize an exception to the general rule, in the case of the BFA and BMus degrees, so that the notation "With Distinction" shall be inscribed on the permanent record and graduate parchment of a candidate for such a degree providing the candidate maintains a grade point average of 7.5 or higher over the last two years of the program and provided that a full course load was carried in each of those years.

### 'PRISONERS OF CONSCIENCE'

A resolution made by BURKE M. BARKER, Professor of Law, on October 1 was amended by Council and approved:

INASMUCH as Freedom of Conscience in various countries is presently under attack by the governments of those countries, be it therefore resolved that this Council express its admiration for the courage of those persons who are prisoners of conscience.

Council agreed to send copies of the resolution to the Minister of External Affairs in Ottawa and to the Secretary-General of the United Nations in New York.

### SHELTERS TO BE SHELTERING SOON

With the not-unexpected arrival of winter, campus bus commuters should be happy to learn that the two "people shelters" at the main bus stops on 89 Avenue will be finished soon.

Delivery of precast roof and exterior materials, previously scheduled for mid-September, had been delayed six weeks, largely because of the rail strike. Work began again early last week and is expected to be complete by mid-November.

The brick and concrete shelters with removable acrylic windows have been designed to blend with the surrounding buildings. They will serve mainly as wind shelters, although provision has been made for a heating system if it proves necessary. Each shelter will accommodate about 140 people.

## PEOPLE

■ WALTER E. HARRIS, Professor of Chemistry, was presented November 2 with the University of Minnesota's Outstanding Achievement Award. The award is given to Minnesota alumni who have distinguished themselves in their areas of study. Dr. Harris obtained his PhD at that university in 1944.

■ E. R. KANASEWICH, Professor and Acting Chairman of Physics, presented an invited paper at the World Geophysical Convention held in Mexico City.

■ R. E. MCKOWN, Associate Professor of Political Science, was invited to the Inter-University Seminars in International Relations to discuss a paper on integration for foreign service operations in Canada.

## NOTICES

### COMMITTEE VACANCIES

The GFC Nominating Committee is seeking nominations for members of the Interdisciplinary Co-ordinating Committee on Environmental Studies, which was established by General Faculties Council on October 29, and would welcome suggestions for nominations from the University community. The purpose of the committee is to encourage the formation of programs in environmental studies within departments and faculties to provide guidance for students, and to recommend the establishment of an introductory course or other courses that it deems to be appropriate. Members of the committee must be active in the area of environmental studies and it is important that they have the support of their departments and faculties. The membership of the committee is also to include one graduate and one undergraduate student.

Nominations are also being sought for members to be elected by General Faculties Council to serve on the Review Committee for the Dean of the Faculty of Business Administration and Commerce, and the Review Committee for the Chairman of the Department of Physiology.

Those who have suggestions for nominations or who are interested in serving on the above committees should contact the Secretary of the Nominating Committee, MRS. PAT MAERTZ, 2-1 University Hall, telephone 432-4965.

### NATIONAL RESEARCH COUNCIL TRAVEL GRANTS

The National Research Council of Canada is accepting applications for visits to Brazil, Czechoslovakia, France, and the USSR from scientists and engineers in disciplines which normally receive support from NRC.

Short term visits (one month to France or the USSR; three months to Brazil or Czechoslovakia) include support to give lectures, conduct seminars, undertake study tours, and become familiar with the research in scientific institutions.

Extended visits (nine months to the USSR; one year to France, Czechoslovakia, or Brazil) are for the purpose of conducting research, and to gain experience in advanced techniques or novel practices not available in Canada.

Only Canadian citizens, PhD or equivalent,

may apply. Closing date is March 31, 1974. For further information and application forms write: Office of International Relations, National Research Council of Canada, Ottawa, Ontario, K1A 0R6.

#### TRAFFIC TICKET APPEALS

Appeals of traffic tickets issued on the campus of The University of Alberta must be lodged with the Secretary, Parking Appeals Committee, Room 2-1 University Hall, within seven days of the date of issue as stated in the Parking Regulations and on the reverse of traffic tickets. Effective immediately, these deadlines will be enforced and appeals received after the deadline will not be considered.

Reappeals will be considered only on the submission of substantial new evidence.

#### WESTERN ASSOCIATION OF SOCIOLOGY AND ANTHROPOLOGY

The annual meeting of the Western Association of Sociology and Anthropology will be held at the Banff School of Fine Arts December 29 to 31. The program will include several sessions on the criminal justice system; resource development in the north and west and its implications for social life; eastern Europeans in Canada; anthropological studies from China, Japan, and Korea; studies of the family; aboriginal people and the law; and a variety of others.

A number of lawyers, civil servants, and other professionals in western Canada will join with sociologists and anthropologists and a number of invited specialists from eastern Canada. Other interested persons are welcome.

For further information telephone JIM HACKLER, Department of Sociology, 432-3322.

#### EDMONTON BUDDHIST SOCIETY

The Edmonton Buddhist Society will meet on Friday, November 9 and Friday, November 23 at 8 p.m. at 15000 75 Avenue. For further information telephone 487-4151.

#### ROYAL BANK AWARD

The Royal Bank of Canada has established an annual award of a gold medal and a cash grant of \$50,000 to honor "a Canadian citizen or person domiciled in Canada, whose outstanding achievement is of such importance that it is contributing to human welfare and the common good."

Nominees may be individual Canadian citizens (or those domiciled in Canada) or a team of such individuals. They must be proposed and recommended by two or more persons, to the selection committee.

Nominations may be made for those in the natural and social sciences, the arts and humanities, or business and industry. The range of activity is extremely broad. The selection committee will expect to receive, with nominations, supporting evidence such as letters, signed statements, published materials etc.

Enquiries and nominations should be addressed to: The Secretary, Selection Committee, Royal Bank Award, P.O. Box 1102, Montreal, Quebec H3C 2X9.

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## THIS WEEK AND NEXT

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*Listings must reach the Editor by 9 a.m. the Friday prior to publication. Written notification is preferred. Compiled by NORMA GUTTERIDGE, 432-4991.*

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### 9 NOVEMBER, FRIDAY

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#### Public Talk

2 p.m. "The James Bay hydro-electric power development project: progress or disaster?" by ALAN RIMMER, General Secretary of the Student Christian Movement of Canada. Students' Union Building, room 142.

#### Student Cinema

6:30 and 9 p.m. *The Devils*. Students' Union Theatre. Admission 50 cents in advance at SUB Information Desk, \$1 at the door.

#### Panel Discussion

7:30 p.m. "The politics of education" sponsored by the Student Christian Movement. Central Academic Building, room 289.

#### Faculty Club

*Downstairs*. TGIF—Pub Night. Steak and kidney pie, salads, trifle. \$2.50.

#### CKUA Radio

6:45 p.m. Music hour—music taped at various concerts at The University of Alberta.

7:45 p.m. Radio talks—"Man and materials (2)" by DEREK WILSON, Associate Professor of Elementary Education, Geology, History. 580 kc. - 98.1 mc.

#### National Film Theatre

7 p.m. *Menschen am Sonntag/People on Sunday* (Germany. 1929) directed by R. Sidomak. Silent with English intertitles. Edmonton Library Theatre, 7 Sir Winston Churchill Square. Admission free, membership not required. Persons over 18 years of age only.

#### Graduate Students' Association

*And every Friday*. The Grad House is open from 8 p.m. to 1 a.m. Wine, beer, pop, sandwiches, and snacks are sold. All graduate students and guests are welcome.

#### Television North Program 'Dance'

8:30 p.m. "Traditional forms." The Alberta Contemporary Dancers show how various traditional forms may provide the base and structure for choreographic invention. Cable 13.

#### Television North Program 'Explorations in Shakespeare'

9 p.m. *As You Like It*. How Shakespeare treated the problems of the sexes, the alienation of youth from an established society, and the romanticism of "dropping out." Cable 13.

#### International Folk Dancing

9 to 11 p.m. *And every Friday*. Physical Education Building, room 011. Admission 50 cents.

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### 10 NOVEMBER, SATURDAY

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#### One-Day Seminar

10 a.m. to 5 p.m. Seminar on the policies and practices of oppression in South Africa, Zimbabwe, Namibia, Mozambique, Angola, and Guinea Bissau. Speakers, films, discussion. Organized by the Student Christian Movement and the Young Women's Christian Association. Education Building, room 377.

#### Football

2 p.m. Golden Bears vs. the University of Manitoba. Varsity Stadium.

#### Faculty Club

*Downstairs*. Casual dining at the Soup Tureen 6 to 9 p.m. Burmese cabbage soup, crab bisque. \$2.75.

*Upstairs*. Regular dinner menu served 6 to 10 p.m., dancing to The British. 9 p.m. until midnight.

#### CKUA Radio

6:45 p.m. Music hour—Gypsy Airs, Sarasate; Oboe Concerto in C Minor, Marcello; Dances from *Don Quixote*, Gerhard; Suite No. 4 Bach. 580 kc. - 98.1 mc.

# FOLIO

#### THE UNIVERSITY OF ALBERTA, EDMONTON, ALBERTA

Published every Thursday for the staff and interested persons by the University Publications Office Copyright 1973

Marcy McKissock, Editor

*FOLIO* Policy Committee E. D. Hodgson (Professor of Educational Administration), J. W. Carmichael (Professor of Bacteriology), and Aylmer A. Ryan (Provost and Executive Assistant to the President)

Staff Jeanette Rothrock (Acting Publications Officer), Norma Gutteridge (Copy and Design Editor), Marjorie Olsen and David Norwood (Editorial Assistants)

Business Manager: A. S. Knowler (Chief Accountant, Office of the Comptroller)

**FOLIO OFFICE** Telephone 432-4991  
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#### Audubon Wildlife Movies

8 p.m. *High Country*, produced and directed by Ruth and David Sterling. The film samples the differing mountain areas of British Columbia. Sponsored by the Edmonton Bird Club. Henry Marshall Tory Building, lecture theatre TL-11. Admission \$1.25, children 50 cents. Tickets from Hugh Campbell, 436-3771 or Ludo Bogaert, 452-2150, extension 214.

#### Edmonton Symphony Orchestra

8:30 p.m. *And 11 November, Sunday at 2:30 p.m.* Conductor: LAWRENCE LEONARD; guest artist: STEPHEN BISHOP, pianist. All Beethoven program. Jubilee Auditorium. Ticket information number 433-2020 (24 hours a day).

#### Student Cinema

*And 11 November, Sunday.* 6:30 and 9 p.m. *Slaughterhouse Five*. Admission 50 cents in advance at SUB Information Desk, \$1 at the door.

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### 12 NOVEMBER, MONDAY

#### CKUA Radio

6:45 p.m. Music hour—*Carmen* (highlights), Bizet.

7:45 p.m. Radio talks—"The birth of a theatre" by MARK SCHONBERG, Associate Professor of Drama. 580 kc. - 98.1 mc.

#### Edmonton Film Society—Classic Series

8 p.m. *Midnight* (USA, 1939) starring Claudette Colbert and John Barrymore, directed by Mitchell Leisen. Henry Marshall Tory Building, TL-11. Memberships available at the door.

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### 13 NOVEMBER, TUESDAY

#### Population Studies Seminar

4 p.m. "Recent developments in demography as reported at the meetings of the International Union for the Scientific Study of Population" by KAROL KROTKI, Professor of Sociology. Henry Marshall Tory Building, room 4-10.

#### Botany Seminar

4:30 p.m. "Dynamic modeling as a tool in resource management" by CARL WALTERS. Biological Sciences Centre, room CW 230. Coffee served from 4 p.m.

#### CKUA Radio

6:45 p.m. Music hour—Toccata, Adagio and Fugue in C Major, Bach; Royal Hunt and Storm from *The Trojans*, Berlioz; *Verklaerte Nacht*, Schoenberg; *Perpetual Motion*, J. Strauss.

7:45 p.m. Radio talks—"House of winds—poems from a dusty shelf" by BILL MEILEN, Assistant Professor of Drama. 580 kc. - 98.1 mc.

#### Film Program

7:15 and 9:30 p.m. *Psychiatry and Violence* (30 minutes) an interview with R. D. Laing, and *Asylum* (90 minutes) a documentary about Dr. Laing's London therapeutic community, Kingsley Hall. Presented by Software Productions Ltd. Students' Union Theatre. Admission \$2.25, students \$1.75.

#### Edmonton Natural History Club

7:30 p.m. "Mosquito problems in Alberta" by BOB DIXON. Provincial Museum and Archives auditorium. Everyone welcome. Admission free.

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### 14 NOVEMBER, WEDNESDAY

#### Brown Bag Session

12:15 p.m. "Sociology in the 1973 international demographic and statistical conference" by KAROL KROTKI, Professor of Sociology. Henry Marshall Tory Building, room 5-15.

#### Routledge Seminar Series

3 p.m. "Development of a psychologically based approach to teaching swimming" by MURRAY SMITH, Associate Professor of Physical Education. Physical Education Centre, east wing, room E120.

#### Botany Seminar

4:30 p.m. "One-carbon metabolism and associated reactions in isolated mitochondria" by TOM CLANDININ. Biological Sciences Centre, room CW 230. Coffee served from 4 p.m.

#### CKUA Radio

6:45 p.m. Music hour—String Quartet No. 2, Bartok; Quartet for Mandolin, Violin, Viola and Lute, Giuliani; Concertino No. 5 in E Flat Major, Pergolesi.

7:45 p.m. Radio talks—"Recreation and athletics at The University of Alberta" by CHARLES MOSER, Athletic Director, Department of Physical Education.

10:30 p.m. Panel discussion—"The modern library—what services?" by JAMES SHAW, Associate Professor of Extension. 580 kc. - 98.1 mc.

#### Faculty Club

*Wednesday at Eight* presents "Party cooking for your holiday entertaining" by Chef ANTON PETER and Maitre D' PAUL GIRARD. 75 cents.

#### Edmonton Film Society—Political Cinema

8 p.m. *Blood of the Condor* (Bolivia, 1969) directed by Jorge Sanjines. Henry Marshall Tory Building, TL-11. Memberships available at the door.

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### 15 NOVEMBER, THURSDAY

#### Presentation of Paper

3:30 p.m. "The ontological necessity of sin in Tillich's theology" by ROGER SHINER,

Associate Professor of Philosophy. Humanities Centre, room 2-19.

#### CKUA Radio

6:45 p.m. Music hour—Cello Concerto, Dvorak; Symphony No. 44 in E Minor, Haydn. 7:45 p.m. Radio talks—"On significance in music" by BRIAN HARRIS, Lecturer in the Department of Music. 580 kc. - 98.1 mc.

#### National Film Theatre

7 p.m. *Pather Panchali* (India, 1954) directed by Satyajit Ray. Bengali with English subtitles. Southgate Library Theatre. Admission free, membership not required. Persons over 18 years of age only.

#### Public Lecture with Slides

8 p.m. "Art et histoire dans les châteaux de Provence" by BERNARD DE MONTGOLFIER, Conservateur de Musée Carnavalet de Paris, en tournée officielle auprès des Alliances Françaises du Canada. Sponsored by the Alliance Française d'Edmonton. The lecture is in French, but the lecturer also speaks English and will answer questions from English-speakers. Provincial Museum and Archives auditorium. Everyone welcome.

#### Graduate Students' Association

*And every Thursday.* The Grad House at 11039 Saskatchewan Drive is open from 8 p.m. to midnight. Cover charge \$1.25; free beer and pop. Sandwiches and snacks for sale; excellent sound system. All graduate students and their guests are welcome. (The Grad House, with kitchen facilities and sound system, is available for parties every night except Thursdays and Fridays, for \$30 plus damage deposit. Call 432-1175 between 1 and 4 p.m. weekdays for reservations.)

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### 16 NOVEMBER, FRIDAY

#### Faculty Club

*Upstairs.* TGIF—foods of northern India. Kashmiri, rogan josh, mirgh korma, samosa, makhan pilao, raita. \$3. Hosts: Dr. and Mrs. K. GUPTA. Entertainment by The British.

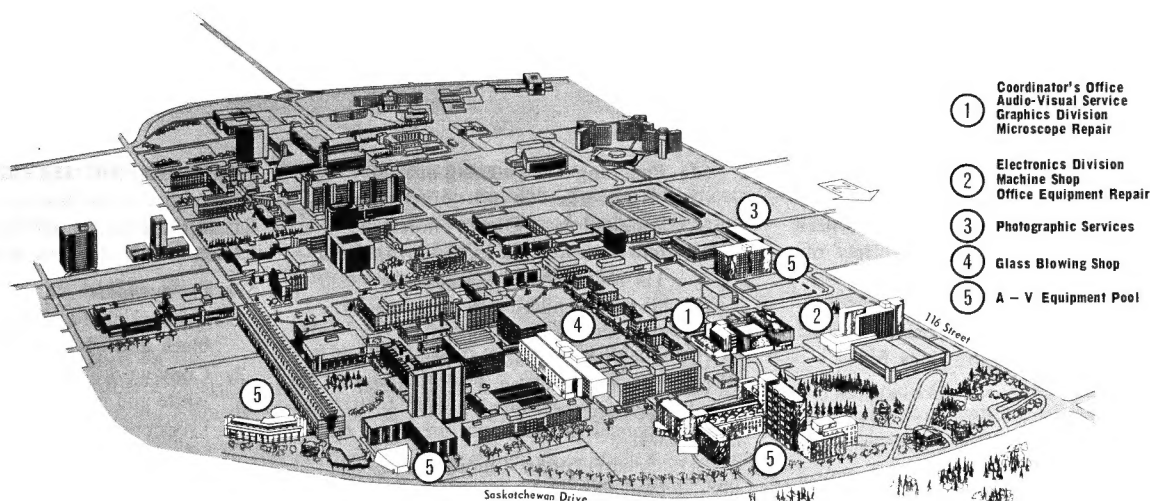
#### CKUA Radio

6:45 p.m. Music hour—music taped at various concerts at The University of Alberta. 7:45 p.m. Radio talks—"Man and materials (3)" by DEREK WILSON, Associate Professor of Elementary Education, Geology, History. 580 kc. - 98.1 mc.

#### Television North Program 'Dance'

8:30 p.m. "Dramatic derivations for dance." The Alberta Contemporary Dancers demonstrate the use of drama in dance. Cable 13.

(Continued on page six)



## The Department of Technical Services

The Department of Technical Services provides a variety of services to all University departments. Technical Services consists of eight divisions, and the services of each are listed in this supplement.

### AUDIO VISUAL SERVICES

Supervisor: J. DE WACHT, telephone 432-1183.  
Equipment requests to: 5-29 Mechanical Engineering Building, telephone 432-3923.  
Equipment may also be picked up at: General Services Building, room 339; telephone 432-1261.  
Henry Marshall Tory Building, room LB-9, Biological Sciences Centre, room CW-005; telephone 432-4962.

#### Services available

1. Projectionist services.
2. Operation of public address and sound systems.
3. Supplying projection equipment to departments.
4. Setting up and operation of recording equipment at lectures, seminars, talks, etc.
5. Advice and assistance on purchase of equipment.
6. Assistance in developing slide-tape programs.

#### Equipment available for short-term loan

1. 35mm slide projectors.
2. 16mm motion picture projectors (sound) including the following special projectors:
  - (a) 16mm projector (silent) variable speed; slowest frame rate is 13 per second,
  - (b) 16mm projector (photo data optical analyzer) which will project at the following frame speeds: 1, 2, 4, 6, 8, 12, 16 and 24 frames per second with no flicker,
  - (c) 16mm projector (magnetic sound).
3.  $3\frac{3}{4}$  x  $4\frac{1}{4}$  slide projectors.
4. Opaque projectors.
5. Filmstrip projectors.
6. Overhead projectors.

7. Tape recorders (several kinds, including battery-operated and cassette recorders).
8. Portable public address systems.
9. Projection screens.
10. Record players.
11. Slide-tape synchronizing systems.

### ELECTRONICS

Supervisor: J. G. A. BRUGMAN,  
Assistant Supervisor: P. G. FEKETE,  
Room 248 Chemical and Mineral Engineering Building, telephone 432-4901.

#### Services available

1. Designing and building specialized electronic equipment.
2. Maintenance and repair of equipment such as sterilizers, glassware washers, environmental chambers, centrifuges, spectrometers, pH meters, liquid scintillation systems, gas chromatographs, computers, teletypes, tape recorders and electronic instrumentation in general. (A preventive maintenance program is available to any department wishing regular servicing of equipment. Service contracts are available.)
3. Electronics technicians are available on either full-time or part-time basis for short or long periods of time.
4. Advice and assistance on technical problems.
5. Servicing intercom installations and sound systems.
6. A considerable amount of electronic equipment is available for loans.
7. Complete fabrication of printed circuit boards, single and double sided.

### DATA ACQUISITION AND INTERFACING

W. DIACHUK—Electronics Division, Room 248 Chemical and Mineral Engineering Building, telephone 432-4901.

#### Services available

1. Design and construction of systems for data acquisition.

2. Design and construction of interfaces for mini-computers.
3. Conversion of analog data to digital data for computer processing.
4. Assistance with purchasing of above type of equipment.
5. Rental of data acquisition systems.
6. A data acquisition system has just been developed comprising a PDP 11-20 computer, an IBM compatible tape unit, and ASR 33 teletype. Software and various hardware support is available. Total system is either for loan or for data conversion in-house.

### GLASSBLOWING

Supervisor: P. B. LEA  
Room 60 Chemistry Building, west wing, telephone 432-3513.

#### Services available

1. Design and construction of specialized scientific glass apparatus.
2. Repair of glass apparatus.
3. Fabrication of apparatus to your specifications.

### GRAPHICS

Supervisor: G. T. WORMSBECKER,  
Assistant Supervisor: R. W. MILLER,  
Room 4-31 Mechanical Engineering Building, telephone 432-3461 or 432-4184.

#### Services available

1. Preparation of all types of drawings for publications, reports, theses, slides and TV and motion pictures.
2. Production of visual aids such as TV cards, overhead projector slides, flip charts, and wall maps for presentations.
3. Direct positive line prints for publication, theses, and projection.
4. Medical and biological illustrations.
5. Lettering and typing in a wide variety of type styles for slides, theses, and publication, including Greek and mathematical.

6. Electrostatic copying (enlarged and reduced) onto paper and acetate.
7. Silkscreen and signpress printing of posters, stickers, and labels on a wide variety of materials.
8. Design and fabrication of displays for conferences, symposia, and exhibitions.
9. Preparation of master drawings for printed circuits.
10. Line negatives for printed circuitry, projectuals, or engineering reproduction.
11. Diazo copying.
12. Advice and assistance regarding visual instructional materials and graphic standards.

#### **MACHINE SHOP**

Supervisor: E. F. EICHENLAUB,

Assistant Supervisor: G. L. EDWARDS,  
Room 132 Chemical and Mineral Engineering  
Building, telephone 432-4901.

##### *Services available*

1. Design and construction of specialized apparatus and equipment.
2. Complete shop service: machining, fabricating, and welding.
3. Service and repair of mechanical apparatus and equipment.
4. Advice and assistance on proposed projects.
5. Advice and assistance on proposed equipment.
6. Modification of equipment and machines.

##### *Equipment is available to do the following:*

1. SAWING
  - (a) Band saw—36 inch throat—depth capacity to 12 inches—contouring to 36 inches diameter—band filing
  - (b) Cut-off saw—circular capacity to 12 inches.
2. TURNING—largest lathe has a capacity of 7 feet between centres with a swing of 20 inches over bed and a 29¾-inch swing in gap.
3. DRILLING AND BORING—radial drill has a 5-foot arm and drilling capacity in steel of 3 inches.
4. MILLING—largest milling machine has a table travel of 60 inches and a ram travel (cross) of 27 inches.
5. WELDING
  - (a) Oxyacetylene
  - (b) Arc
  - (c) Tig, 500 amp maximum
  - (d) Mig
  - (e) Silver brazing
  - (f) Plasma needle arc
  - (g) Plasma arc cutting (stainless steel and aluminum).
6. FABRICATING
  - (a) Power shearing 10 ft. x ¼ in. capacity
  - (b) Press brake 12 ft. die surface, 110 ton capacity
  - (c) Hand brake, 4 ft.

- (d) Punching and notching on "Ironworker"
- (e) Bending on a "Diacro" number 8 power bender, ¾ in. x 4 in. flat and 1¼ in. mild steel bar capacity
- (f) "Pioneer" nibbler ⅝ in. capacity.
7. GRINDING AND LAPPING
  - (a) "Norton" tool and cutter grinder
  - (b) Lapping machine, 5 in. diameter capacity.
8. GAUGING
  - (a) "Scherr-Tumico" model P1600 Optical Comparator with photo print facility
  - (b) Registered Double "A" standard surface plate and gauge blocks in temperature-controlled room.
9. POLISHING
  - (a) Mechanical buffing
  - (b) Electro-polishing
  - (c) Anodizing
  - (d) Bluing.
10. SHOT-BLASTING—Shot-blast machine has a chamber size of 48 in. x 30 in. x 38 in.

#### **MICROSCOPE REPAIR**

Supervisor: R. J. CUNNINGHAM,  
Room 4-22 Mechanical Engineering Building,  
telephone 432-1449.

##### *Services available*

1. Maintenance and repair of microscopes.
2. Maintenance and repair of balances.
3. A preventive maintenance program is available to any department wishing regular servicing of microscopes and/or balances.
4. Repair of electrical meters (movements only)—voltmeters, ammeters, etc.

#### **OFFICE EQUIPMENT REPAIR**

Supervisor: D. MILLAR,  
Room 130 Chemical and Mineral Engineering  
Building, telephone 432-4901.

##### *Services available*

1. Maintenance and repair of
  - (a) all lines of electric and mechanical typewriters
  - (b) all lines of dictation equipment
  - (c) all lines of mechanical adding machines and calculators
  - (d) some lines of electronic calculators (Where we are unable to service electronic calculators, we will handle the servicing through the distributor if the department wishes.)
  - (e) spirit duplicators
  - (f) small photocopy machines
  - (g) microfilm readers and printers
  - (h) small office accessories.
2. Loan machines available for many makes while your machines are being repaired.
3. Machines available for rent.
4. IBM type element repair.

#### **PHOTOGRAPHIC SERVICES**

Supervisor: A. CHERNICK,  
Room 130 Printing Services Building,  
telephone 432-4185 or 4186.

##### *Services available*

1. Original photography—prints and slides in black and white and in color.
2. Copy work—prints and slides in black and white and in color.
3. Production of superior quality black and white prints using an electronic scanning enlarger.
4. Portraits.
5. Photomicrography, microphotography, macrophotography.
6. Specialized scientific and medical photography.
7. Murals.
8. Microfilming.
9. Film processing and printing in black and white and in color.
10. Camera and accessory rentals.
11. Motion Pictures (phone 432-3812)
  - (a) Complete film production services: research, educational, documentary, dramatic; in color, black and white, silent or sound
  - (b) Film completion services: assistance in completing your own film to any extent you require
  - (c) Camera rentals: 16mm Bolexes with 17-85mm zooms, Super 8 Canon model 814s (reservations usually required)
  - (d) Specialized services available—photographic setups for research, time lapse, cinemicrographic data recordings, high speed camera operation, still pictures from films, sound and picture editing and synchronizing
  - (e) Film processing services
  - (f) Large file of motion picture technical and product information, and advice.

#### **TECHNICAL SERVICES TELEPHONE DIRECTORY**

Co-ordinator:

W. H. Jopling  
Room 6-29 Mechanical Engineering  
Building, telephone 432-3302.

Audio Visual Services	432-3923
Electronics	432-4901
Glassblowing	432-3513
Graphics	432-3461 or 4184
Machine Shop	432-4901
Microscope Repair	432-1449
Office Equipment Repair	432-4901
Photo Services	432-4185 or 4186
Motion Pictures	432-3912

(Continued from page three)

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## 17 NOVEMBER, SATURDAY

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### Volleyball

8 a.m. to 6 p.m. University of Alberta Senior High School Invitational. All gymnasiums.

### Football

2 p.m. Western College Bowl. Varsity Stadium.

### Faculty Club

*Downstairs.* Casual dining at the Soup Tureen 6 to 9 p.m. Carrot soup, Lady Curzon soup \$2.75.

*Upstairs.* Fresh lobster served 6 to 10 p.m. \$8.50. Also regular dinner menu. Dancing 9 p.m. until midnight.

### CKUA Radio

6:45 p.m. Music hour—Ebony Concerto, Stravinsky; Concerto Grosso No. 11, Handel; 1812 Overture, Tchaikovsky; Hungarian Dance No. 5, Brahms; *Bess, You Is My Woman Now*, Gershwin. 580 kc. - 98.1 mc.

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## EXHIBITIONS AND PLAYS

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### SUB Art Gallery

*Until 25 November.* "French Canadians from sea to sea" portraying contributions by French Canadians past and present.

### Studio Theatre

8, 9, and 10 November. Curtain times: nightly at 8:30 p.m., excluding Sundays; Saturday matinees at 2:30 p.m. *Blood Wedding*, directed by FRANK BUECKERT, Professor of Drama. Studio Theatre, Corbett Hall. Admission \$2.50, University students free. Tickets from Fine Arts Centre, room 3-146, telephone 432-1495.

### Prestige Productions

*Until 17 November.* Curtain time 8:30 p.m. *Play It Again, Sam* by Woody Allen. Directed by BUD D'AMUR. Edmonton Library Theatre. Tickets on sale at Mike's Ticket Office, 424-8911, at \$3 each.

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## PERSONAL NOTICES

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*Notices must be received by 9 a.m. the Friday prior to publication. Rate is ten cents per word for the first insertion and five cents per word for subsequent insertions ordered with the first. Minimum charge is \$1. To avoid billing, notices MUST BE PAID IN ADVANCE. For assistance or order blanks, telephone 432-4991.*

### Accommodation available

FOR SALE—(1) Lansdowne—excellent three-bedroom bungalow with professionally finished basement,

two fireplaces, double garage. Many extras. Asking \$49,900. (2) West End—one-year-old four bedroom two storey with main floor family room featuring fireplace and patio doors. Three baths, balcony off master and attached single garage. Large existing mortgage. Asking \$48,400. To view these lovely homes call Shirley Way-Nee, Potter Realty 436-3050; res. 435-6032.

FOR SALE—Grandview, large remodelled bungalow with indoor pool. Call Eleanor Duncan, Potter Realty 436-3050; res. 434-7368.

FOR RENT—Laurier, 6 room bungalow, \$275 per month. Call Eleanor Duncan, Potter Realty 436-3050; res. 434-7368.

FOR RENT—Furnished three bedroom home beside University. January through June 1974. 436-3343.

WANTED—Mature student to live in; board and laundry included. Private room with own study. Quiet household. Available after November 1. Telephone 452-8254.

FOR SALE OR RENT BY OWNER—Beautiful three-bedroom bungalow in St. Albert, ravine lot, quiet crescent, double garage, two large baths, sunken living room, family room with fireplace, sliding doors with patio on the basement level, with provision for second fireplace; 1,309 sq/ft main floor, immense scope for basement development. Asking \$44,700. Phone evenings 459-3625, days 432-5805.

FOR SALE—(1) Investment property close to University. 1½ storey older home, yielding \$285/month. Clear title. (2) Buy now to build on later. Choice lots including one with river view. Astute purchaser will move now. Call Millie-Lynne McLean, Spencer Real Estate, 452-5850 or 435-7896.

FOR RENT—Fully furnished three-bedroom bungalow, 148 Laurier Drive. Extremely reasonable rent includes TV. Available November 15. Telephone 482-4501 or 432-3732.

FOR SUBLET—January 1 - June 30, luxury penthouse, furnished, three baths, three bedrooms. 432-3741 or 488-4395.

FOR RENT—Two-bedroom suite west of but near University, view over river, balcony, garage; two adults. 433-3823.

FOR SALE—Grandview Heights; five minutes from University; a striking custom-built home which includes: spacious entry; living room with cathedral-beamed cedar ceiling; delightful kitchen featuring window wall; impressive den designed for library use. Four bedrooms; two baths. Double garage. Well situated on large, professionally landscaped lot. To view call Steve Gibbens, H. R. Kellough Realty, 439-7371 or 435-2604.

### Accommodation wanted

WANTED—Quiet accommodation. January - April, walking distance to University. 434-0286.

### Automobiles and accessories

WRECKING—1966 Austin 1800. 439-6497.

### Goods and services

FOR SALE—Beautifully tailored evening dress, size 7, worn once. Offers open. Call 484-0396 after 5 p.m. SENSATIONAL—14-day trip to Australia for \$1,066—and all that—inclusive: hotels, tours and flights all over. Call Iris Rosen and Associates at 488-8181 for brochures.

FOR SALE—Traditional dining suite: extendable table, six chairs, china cabinet. \$375. Two-piece living room corner suite with matching chair in turquoise, \$100. Twin beds, \$60/pr. Blond dresser, \$30. Antique tallboy, \$75. 482-6686 after 6.

FOR SALE—Blizzard metal skis, 200 cm; little used; excellent condition. Were \$145, now \$80. Phone 432-6358 days, 432-8137 evenings.

FOR SALE—Man's navy blue, down ski jacket (small) worth \$65 new. Bought too small as gift for owner. Like new; asking \$30. Telephone Mary at 432-3307 days or 433-9917 evenings.

FOR SALE—Sony TC355 three-speed, three head, open reel tape deck. Five reels of BASF tape. \$150. Also, Dual 1009 turntable, base, no cover. Shure cartridge, \$50. Frucht, 432-5394 or 488-5137.

WANTED—Amputee skier will pay for a good quality ski. Phone Mary at 432-3307 or 433-9917 if you have a broken pair with one usable ski.

FOR SALE—Mason and Risch spinet piano. Beautiful condition. Walnut. 454-9477.

FOR SALE—54-volume Britannica Great Books, 40-volume annotated Yale Shakespeare edition. 459-3429.

CAR POOL—Wish to form car pool to and from University and St. Albert. 459-3429.

FOR SALE—Six-light brass and crystal chandelier, \$25; belt vibrator, \$40; youth bunk beds complete with fitted bottom sheets, dust ruffles, pink spreads, guard rail, \$60; two small tricycles, \$5 each. 434-4407.

FOR SALE—Kenmore washer/spin dryer (apartment size), like new. Mrs. J. Besson, 12936 116 Street.

FOR SALE—Washer, \$125; dryer, \$95. Set, \$200. Good condition. 484-8581.

PIANO LESSONS—for beginners and advanced from qualified teacher. 488-7710.

POTTERY, BATIKS, WEAVING, PLANT SALE—Mugs, bowls, lamps, candle holders, pendants, planters, objects to behold, wall hangings, pillows, belts, etc. Saturday, November 10 from 9 a.m. to 6 p.m. 5415 114B Street (off 51 Avenue). 434-1836.

PLUMBING—FOR FREE ESTIMATES on basement bathrooms, repairs, alterations etc. call 439-4670, anytime.

DRESSMAKING AND ALTERATIONS—by experienced seamstress. Telephone 433-2351.

### SHANGHAI HOUSE

Mandarin restaurant, serving Chinese delicacies originally from such places as Shanghai, Peking, and Szechuen. Menu contains more than 150 items; excellent food at reasonable prices. Different combination plates for luncheon each day. Open Tuesday through Sunday; 11 a.m. - 9 p.m. weekdays, 11 a.m. - 12 p.m. weekends. 6525 111 Street, 435-7622. Try our assorted braised duck, crispy Long Island Duck, or Peking Duck three ways.

TYPING DONE—Fast efficient service. Georgina Barton, 429-3219 or 489-4810.

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## POSITIONS VACANT

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### NON-ACADEMIC STAFF

*Applicants are sought for the following positions. The Office of Personnel Services and Staff Relations (Room 121, Administration Building) will provide further details to interested persons, who are not to approach the department directly.*

Clerk Typist I (Half-time) (\$177/month)—Collège Universitaire Saint-Jean  
Library Clerk II (\$354-\$453)—Extension Library  
Electronics Technician I (\$549-\$701)—Technical Services  
Audiovisual Technician III (\$701-\$895)—  
Audiovisual Media Centre  
Duplicating Equipment Operator II (2) (\$412-\$523)—  
Duplicating  
Program Librarian (\$895-\$1,142)—Computing Services  
Chemical Technician II (\$606-\$773)—Plant Science  
Computer Operator (\$549-\$701)—Computing Services  
Administrative Assistant (\$701-\$895)—Student  
Counselling  
Personnel Assistant (\$701-\$895)—Chemistry